

MFB SPEAKER SYSTEM

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Abstract of JP10276492

PROBLEM TO BE SOLVED: To reduce non-linear distortion by providing a speaker always having an ideal voice coil vibration center by inserting 1st and 2nd average value filters for averaging respective outputs on the following stages of a displacement detecting means and a filter means.
SOLUTION: On the rear stages of the digital filter 4 and the displacement detection sensor 2, 1st and 2nd average value filters 7 and 8 are respectively inserted. When displacement characteristics are inserted to the average value filter 7, its output shows the average position of the vibration system, namely, a central position in the displacement of vibration. In this case, when a distorted component at the time of even number exists at the rear speaker, the central position in the displacement of the voice coil is deviated back and forth because of its influence. Therefore, when a signal detected by the displacement detection sensor 2 is inputted to the average value filter 7, its output applies the deviated central position in the vibration. Since the output of the digital filter 4 is a linear response, on the other hand, no distorted component exists and when a signal is a pure tone, for example, the displaced output passed through the average value filter 8 is turned to zero.

